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(54) RADIO TRANSMISSION SYSTEM

(57)Abstract:

PURPOSE: To avoid a transmission delay and to attain high throughput in an environment in which a channel traffic is largely fluctuated by increasing gradually a transmission probability in response to a transmission enable slot number.

CONSTITUTION: A reception section 15 of a terminal station control circuit 17 receives transmission inhibit 7 enable information for each slot to decide the transmission probability according to the reception result. That is, when slots of transmission enable are consecutive, the transmission probability is set to be A (constant), $A \times B$, $A \times B^2$, $A \times B^3$... for each lapse of one slot. When the multiplier B is set to be a value larger than the unity, as slots representing transmission enable are consecutive, the transmission probability is being increased.

As a result, the transmission delay time when the channel traffic is small is reduced. Furthermore, when the channel traffic is large, the probability of signal collision is reduced by selecting the initial value A to be a small value to attain a high throughput.

